SLP-76 (D1R1A) Rabbit mAb (PE Conjugate)						
Sto				Orders:	877-616-CELL (2355) orders@cellsignal.com	
147				Support:	877-678-TECH (8324)	
#35447				Web:	info@cellsignal.com cellsignal.com	
	· Notfey Lles in			3 Trask Lane   Danvers	Massachusetts   01923   USA	
For Research Use Only Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID #Q13094	Entrez-Gene Id: 3937	
Product Usage Information	Aŗ	Application			Dilution	
	Flo	Flow Cytometry (Fixed/Permeabilized)			1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.10 antibody. Protect from light. Do not freez			de and 2 mg/ml BSA. Store	at 4°C. Do not aliquot the	
Specificity / Sensitivity		SLP-76 (D1R1A) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total SLP-76 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro390 of human SLP-76 protein.				
Product Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated SLP-76 (D1R1A) Rabbit mAb #70896.				

Background SH2 domain-containing leukocyte protein of 76 kDa (SLP-76) is a hematopoietic adaptor protein that is important in multiple biochemical signaling pathways and necessary for T cell development and activation (1). ZAP-70 phosphorylates SLP-76 and LAT as a result of TCR ligation. SLP-76 has amino-terminal tyrosine residues followed by a proline-rich domain and a carboxy-terminal SH2 domain. Phosphorylation of Tyr113 and Tyr128 result in recruitment of the GEF Vav and the adaptor protein Nck (2). TCR ligation also leads to phosphorylation of Tyr145, which mediates an association between SLP-76 and Itk, which is accomplished in part via the proline-rich domain of SLP-76 and the SH3 domain of Itk (3). Furthermore, the proline-rich domain of SLP-76 binds to the SH3 domains of Grb2-like adaptor Gads (3,4). In resting cells, SLP-76 is predominantly in the cytosol. Upon TCR ligation, SLP-76 translocates to the plasma membrane and promotes the assembly of a multi-protein signaling complex that includes Vav, Nck, Itk, and PLCy1 (1). The expression of SLP-76 is tightly regulated; the protein is detected at very early stages of thymocyte development, increases as thymocyte maturation progresses, and is reduced as cells mature to CD4+ CD8<sup>+</sup> double-positive thymocytes (5). 1. Clements, J.L. (2003) Immunol Rev 191, 211-9. **Background References** 

2. Bubeck Wardenburg, J. et al. (1998) *Immunity* 9, 607-16.
3. Bunnell, S.C. et al. (2000) *J Biol Chem* 275, 2219-30.
4. Liu, S.K. et al. (1999) *Curr Biol* 9, 67-75.
5. Clements, J.L. et al. (1998) *J Immunol* 161, 3880-9.

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in		

SLP-76 (D1R1A) Rabbit mAb (PE Conjugate) (#35447) Datasheet Without Images Cell Signaling Technology

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.